

Licencee Name: Loop Organics Pty Ltd  
 Facility Address: 74 Lemington Rd, Ravensworth  
 EPL No.: EPL 20892

2018 - 2019	EPA Identification No.		2		2		2		2	
	Description		Leachate Dam		Leachate Dam		Leachate Dam		Leachate Dam	
	Monitoring frequency		Quarterly		Quarterly		Quarterly		Quarterly	
	Date sample collected		7/08/2018		27/11/2018		8/02/2019		15/05/2019	
	Time		4:00 PM		5:30 PM		3:00 PM		4:00 PM	
	Date data obtained		30/08/2018		7/12/2018 & 19/12/2018		21/02/2019		5/06/2019	
	Date data published		25/09/2018		31/12/2018		6/03/2019		12/06/2019	
	Pollutant	Units	Pollution conc. Limits	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.
Alkalinity (CaCO3)	mg/L	N/A	74	N/A	140	N/A	200	N/A	150	N/A
Ammonia	mg/L	N/A	0.068	N/A	0.22	N/A	1.1	N/A	0.073	N/A
Calcium	mg/L	N/A	6.1	N/A	21	N/A	24	N/A	29	N/A
Chloride	mg/L	N/A	20	N/A	22	N/A	37	N/A	43	N/A
EC	mS/cm	N/A	0.28	N/A	0.49	N/A	0.63	N/A	0.59	N/A
Fluoride	mg/L	N/A	1	N/A	0.9	N/A	0.7	N/A	0.5	N/A
Iron	mg/L	N/A	6.6	N/A	1.85	N/A	0.77	N/A	0.59	N/A
Magnesium	mg/L	N/A	12	N/A	16	N/A	16	N/A	22	N/A
Manganese	mg/L	N/A	0.076	N/A	0.034	N/A	0.035	N/A	0.095	N/A
N (total)	mg/L	N/A	5.5	N/A	6.6	N/A	9.4	N/A	15	N/A
pH	pH	N/A	7.5	N/A	8.3	N/A	7.7	N/A	8.7	N/A
Phosphorus	mg/L	N/A	0.2	N/A	2.3	N/A	2.1	N/A	4	N/A
PAH	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
Potassium	mg/L	N/A	6.6	N/A	8	N/A	11	N/A	17	N/A
Sodium	mg/L	N/A	31	N/A	48	N/A	53	N/A	59	N/A
Sulfate	mg/L	N/A	33	N/A	42	N/A	53	N/A	71	N/A
Total organic carbon	mg/L	N/A	9.1	N/A	10	N/A	70	N/A	79	N/A
Total petroleum hydrocarbons	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
Total phenolics	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
Total suspended solids	mg/L	N/A	400	N/A	82	N/A	70	N/A	140	N/A

ND = Not detected for all analytes in this group.

2019 - 2020	EPA Identification No.		2		2		2		2		
	Description		Leachate Dam		Leachate Dam		Leachate Dam		Leachate Dam		
	Monitoring frequency		Quarterly		Quarterly		Quarterly		Quarterly		
	Date sample collected		18/08/2019		N/A		3/03/2020		29/05/2020		
	Time		4:00 PM		N/A		N/A		N/A		
	Date data obtained		29/08/2019		N/A		19/03/2020		23/06/2020		
	Date data published		18/09/2019		9/12/2019						
	Pollutant	Units	Pollution conc. limits	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)
	Alkalinity (CaCO3)	mg/L	N/A	250	N/A	No sample collected. Leachate dam level below 5% due to dry weather condition during quarter and leachate not able to be collected.	N/A	280	N/A	250	N/A
	Ammonia	mg/L	N/A	5	N/A		N/A	19	N/A	4.5	N/A
	Calcium	mg/L	N/A	43	N/A		N/A	330	N/A	42	N/A
	Chloride	mg/L	N/A	60	N/A		N/A	83	N/A	110	N/A
	EC	mS/cm	N/A	0.85	N/A		N/A	#REF!	N/A	1	N/A
	Fluoride	mg/L	N/A	0.8	N/A		N/A	0.4	N/A	0.6	N/A
	Iron	mg/L	N/A	2.44	N/A		N/A	#REF!	N/A	0.9	N/A
	Magnesium	mg/L	N/A	33	N/A		N/A	890	N/A	36	N/A
	Manganese	mg/L	N/A	0.29	N/A		N/A	#REF!	N/A	0.09	N/A
	N (total)	mg/L	N/A	7.2	N/A		N/A	33	N/A	15	N/A
	pH	pH	N/A	7.9	N/A		N/A	7.8	N/A	7.3	N/A
	Phosphorus	mg/L	N/A	1.5	N/A		N/A	0.051	N/A	5.1	N/A
PAH	mg/L	N/A	ND	N/A	N/A		ND	N/A	ND	N/A	
Potassium	mg/L	N/A	19	N/A	N/A		630	N/A	37	N/A	
Sodium	mg/L	N/A	73	N/A	N/A		11200	N/A	86	N/A	
Sulfate	mg/L	N/A	95	N/A	N/A		88	N/A	80	N/A	
Total organic carbon	mg/L	N/A	40	N/A	N/A		120	N/A	110	N/A	
Total petroleum hydrocarbons	mg/L	N/A	ND	N/A	N/A		ND	N/A	ND	N/A	
Total phenolics	mg/L	N/A	ND	N/A	N/A	ND	N/A	ND	N/A		
Total suspended solids	mg/L	N/A	17	N/A	N/A	21	N/A	72	N/A		

ND = Not detected for all analytes in this group.

EPA Identification No.	2	2	2	2
Description	Leachate Dam	Leachate Dam	Leachate Dam	Leachate Dam

Monitoring frequency		Quarterly		Quarterly		Quarterly		Quarterly		
Date sample collected		25/08/2020		3/12/2020		11/02/2021		26/04/2021		
Time		10:00 AM		10:00 AM		10:00 AM		10:00 AM		
Date data obtained		11/09/2020		14/12/2020		23/02/2021		5/05/2021		
Date data published		18/09/2020		31/12/2020		8/03/2021		12/05/2021		
Pollutant	Units	Pollution conc. limits	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)
Alkalinity (CaCO <sub>3</sub> )	mg/L	N/A	340	N/A	210	N/A	190	N/A	260	N/A
Ammonia	mg/L	N/A	10	N/A	3	N/A	2.7	N/A	5.4	N/A
Calcium	mg/L	N/A	66	N/A	53	N/A	45	N/A	89	N/A
Chloride	mg/L	N/A	90	N/A	110	N/A	96	N/A	70	N/A
EC	mS/cm	N/A	1.2	N/A	1.4	N/A	1.1	N/A	1.3	N/A
Fluoride	mg/L	N/A	0.4	N/A	0.4	N/A	0.3	N/A	0.3	N/A
Iron	mg/L	N/A	0.41	N/A	0.16	N/A	0.2	N/A	0.00074	N/A
Magnesium	mg/L	N/A	44	N/A	47	N/A	35	N/A	52	N/A
Manganese	mg/L	N/A	0.17	N/A	0.022	N/A	0.032	N/A	0.00008	N/A
N (total)	mg/L	N/A	21	N/A	28	N/A	15	N/A	20	N/A
pH	pH	N/A	7.7	N/A	8.1	N/A	7.7	N/A	8.5	N/A
Phosphorus	mg/L	N/A	13	N/A	3.6	N/A	2.6	N/A	6.7	N/A
PAH	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
Potassium	mg/L	N/A	40	N/A	48	N/A	36	N/A	52	N/A
Sodium	mg/L	N/A	110	N/A	140	N/A	120	N/A	120	N/A
Sulfate	mg/L	N/A	140	N/A	230	N/A	260	N/A	130	N/A
Total organic carbon	mg/L	N/A	110	N/A	140	N/A	100	N/A	92	N/A
Total petroleum hydrocarbons	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
Total phenolics	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
Total suspended solids	mg/L	N/A	17	N/A	150	N/A	61	N/A	69	N/A

ND = Not detected for all analytes in this group.

EPA Identification No.	2	2	2	2
Description	Leachate Dam	Leachate Dam	Leachate Dam	Leachate Dam
Monitoring frequency	Quarterly	Quarterly	Quarterly	Quarterly
Date sample collected	13/07/2021	15/11/2021	11/02/2022	8/06/2022

2021 - 2022	Time		10:00 AM		10:00 AM		10:00 AM		10:00 AM	
	Date data obtained		11/08/2021		24/11/2021		4/03/2022		17/06/2022	
	Date data published		12/10/2021		24/11/2021		28/04/2022		21/07/2022	
	Pollutant	Units	Pollution conc. limits	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.
Alkalinity (CaCO3)	mg/L	N/A	260	N/A	230	N/A	350	N/A	400	N/A
Ammonia	mg/L	N/A	2.3	N/A	17	N/A	5.2	N/A	3.4	N/A
Calcium	mg/L	N/A	52	N/A	57	N/A	53	N/A	74	N/A
Chloride	mg/L	N/A	95	N/A	77	N/A	120	N/A	82	N/A
EC	mS/cm	N/A	1.1	N/A	1.2	N/A	1.2	N/A	1.2	N/A
Fluoride	mg/L	N/A	0.2	N/A	0.3	N/A	0.4	N/A	0.3	N/A
Iron	mg/L	N/A	0.68	N/A	1.4	N/A	0.6	N/A	1.1	N/A
Magnesium	mg/L	N/A	44	N/A	36	N/A	43	N/A	41	N/A
Manganese	mg/L	N/A	0.097	N/A	0.087	N/A	0.052	N/A	0.15	N/A
N (total)	mg/L	N/A	13	N/A	31	N/A	27	N/A	21	N/A
pH	pH	N/A	8.6	N/A	7.8	N/A	8	N/A	8.7	N/A
Phosphorus	mg/L	N/A	2.3	N/A	4.7	N/A	4.3	N/A	5.1	N/A
PAH	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
Potassium	mg/L	N/A	50	N/A	39	N/A	46	N/A	41	N/A
Sodium	mg/L	N/A	120	N/A	100	N/A	130	N/A	110	N/A
Sulfate	mg/L	N/A	162	N/A	100	N/A	79	N/A	26	N/A
Total organic carbon	mg/L	N/A	100	N/A	130	N/A	120	N/A	97	N/A
Total petroleum hydrocarbons	mg/L	N/A	0.32	N/A	ND	N/A	0.1	N/A	0.49	N/A
Total phenolics	mg/L	N/A	0.011	N/A	ND	N/A	0.032	N/A	0.002	N/A
Total suspended solids	mg/L	N/A	92	N/A	140	N/A	64	N/A	74	N/A

ND = Not detected for all analytes in this group.

EPA Identification No.	2	2	2	2
Description	Leachate Dam	Leachate Dam	Leachate Dam	Leachate Dam
Monitoring frequency	Quarterly	Quarterly	Quarterly	Quarterly
Date sample collected	12/09/2022	8/12/2022	4/04/2023	29/6/2023
Time	10:00 AM	10:00 AM	10:00 AM	10:00 AM
Date data obtained	25/10/2022	6/01/2023	1/05/2023	10/7/2023

2022 - 2023	Date data published		26/10/2022		12/01/2023		2/05/2023		11/07/2023		
	Pollutant	Units	Pollution conc. limits	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)
	Alkalinity (CaCO3)	mg/L	N/A	440	N/A	280	N/A	240	N/A	270	N/A
	Ammonia	mg/L	N/A	12	N/A	2.6	N/A	5.5	N/A	0.9	N/A
	Calcium	mg/L	N/A	79	N/A	53	N/A	41	N/A	47	N/A
	Chloride	mg/L	N/A	86	N/A	77	N/A	72	N/A	68	N/A
	EC	uS/cm	N/A	1300	N/A	980	N/A	840	N/A	970	N/A
	Fluoride	mg/L	N/A	0.3	N/A	0.4	N/A	0.3	N/A	0.4	N/A
	Iron	mg/L	N/A	0.64	N/A	3	N/A	0.43	N/A	0.83	N/A
	Magnesium	mg/L	N/A	40	N/A	29	N/A	24	N/A	28	N/A
	Manganese	mg/L	N/A	0.18	N/A	0.27	N/A	0.088	N/A	0.13	N/A
	N (total)	mg/L	N/A	31	N/A	17	N/A	18	N/A	9.4	N/A
	pH	pH	N/A	7.5	N/A	7.3	N/A	8	N/A	8.3	N/A
	Phosphorus	mg/L	N/A	5.7	N/A	8.4	N/A	3.4	N/A	3	N/A
	PAH	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
	Potassium	mg/L	N/A	37	N/A	34	N/A	37	N/A	40	N/A
	Sodium	mg/L	N/A	110	N/A	98	N/A	81	N/A	93	N/A
	Sulfate	mg/L	N/A	53	N/A	51	N/A	73	N/A	40	N/A
	Total organic carbon	mg/L	N/A	130	N/A	110	N/A	72	N/A	57	N/A
	Total Petroleum Hydrocarbons	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
	Total phenolics (phenols)	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
	Total suspended solids	mg/L	N/A	67	N/A	270	N/A	45	N/A	52	N/A

ND = Not detected for all analytes in this group.

	EPA Identification No.	2	2	2	2
	Description	Leachate Dam	Leachate Dam	Leachate Dam	Leachate Dam
	Monitoring frequency	Quarterly	Quarterly	Quarterly	Quarterly
	Date sample collected	25/09/2023	2/02/2024	30/04/2024	17/07/2024
	Time	10:00 AM	10:00 AM	10:00 AM	10:00 AM
	Date data obtained	10/12/2023	20/02/2024	13/05/2024	23/07/2024
	Date data published	13/10/2023	20/02/2024	15/05/2024	23/07/2024

2023 - 2024

Pollutant	Units	Pollution conc. limits	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)
Alkalinity (CaCO3)	mg/L	N/A	360	N/A	390	N/A	340	N/A	320	N/A
Ammonia	mg/L	N/A	13	N/A	0.58	N/A	2.4	N/A	3.2	N/A
Calcium	mg/L	N/A	60	N/A	56	N/A	170	N/A	93	N/A
Chloride	mg/L	N/A	100	N/A	180	N/A	61	N/A	210	N/A
EC	uS/cm	N/A	1300	N/A	1500	N/A	1300	N/A	1500	N/A
Fluoride	mg/L	N/A	0.5	N/A	0.5	N/A	0.3	N/A	0.3	N/A
Iron	mg/L	N/A	1	N/A	0.18	N/A	0.35	N/A	0.73	N/A
Magnesium	mg/L	N/A	34	N/A	44	N/A	35	N/A	54	N/A
Manganese	mg/L	N/A	0.18	N/A	0.045	N/A	0.11	N/A	0.15	N/A
N (total)	mg/L	N/A	180	N/A	13	N/A	20	N/A	17	N/A
pH	pH	N/A	7.7	N/A	9.1	N/A	7.7	N/A	8	N/A
Phosphorus	mg/L	N/A	5.2	N/A	1.9	N/A	3.5	N/A	4	N/A
Polycyclic Aromatic Hydrocarbons (PAH)	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
Potassium	mg/L	N/A	52	N/A	80	N/A	84	N/A	130	N/A
Sodium	mg/L	N/A	120	N/A	150	N/A	120	N/A	190	N/A
Sulfate	mg/L	N/A	52	N/A	95	N/A	150	N/A	150	N/A
Total Organic Carbon	mg/L	N/A	81	N/A	91	N/A	89	N/A	130	N/A
Total Petroleum Hydrocarbons	mg/L	N/A	ND	N/A	ND	N/A	2.53	N/A	1.06	N/A
(Formally TPH) TRH C6 - C9	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
(Formally TPH) TRH C10 - C14	mg/L	N/A	ND	N/A	ND	N/A	0.15	N/A	ND	N/A
(Formally TPH) TRH C15 - C28	mg/L	N/A	ND	N/A	ND	N/A	1.6	N/A	0.58	N/A
(Formally TPH) TRH C29 - C36	mg/L	N/A	ND	N/A	ND	N/A	0.78	N/A	0.48	N/A
Total Phenolics (Phenols)	mg/L	N/A	ND	N/A	ND	N/A	ND	N/A	ND	N/A
Total Suspended Solids	mg/L	N/A	33	N/A	55	N/A	39	N/A	29	N/A

ND = Not detected for all analytes in this group.

EPA Identification No.	2	2	2	2
Description	Leachate Dam	Leachate Dam	Leachate Dam	Leachate Dam
Monitoring frequency	Quarterly	Quarterly	Quarterly	Quarterly
Date sample collected	21/08/2024	18/12/2024		
Time	10:00 AM	10:00 AM	10:00 AM	10:00 AM
Date data obtained	3/09/2024	15/01/2025		
Date data published	18/10/2024	20/01/2025		

2024 - 2025

Pollutant	Units	Pollution conc. limits	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)	Measured Conc.	Exceedance (Y/N or N/A)
Alkalinity (CaCO3)	mg/L	N/A	360	N/A	410	N/A				
Ammonia	mg/L	N/A	3.5	N/A	0.31	N/A				
Calcium	mg/L	N/A	80	N/A	81	N/A				
Chloride	mg/L	N/A	150	N/A	270	N/A				
EC	uS/cm	N/A	1600	N/A	1800	N/A				
Fluoride	mg/L	N/A	0.31	N/A	0.4	N/A				
Iron	mg/L	N/A	1.15	N/A	460	N/A				
Magnesium	mg/L	N/A	44	N/A	51	N/A				
Manganese	mg/L	N/A	0.15	N/A	200	N/A				
N (total)	mg/L	N/A	18	N/A	18	N/A				
pH	pH	N/A	8.3	N/A	7.8	N/A				
Phosphorus	mg/L	N/A	4	N/A	5.6	N/A				
Polycyclic Aromatic Hydrocarbons (PAH)	mg/L	N/A	0.008	N/A	ND	N/A				
Potassium	mg/L	N/A	100	N/A	110	N/A				
Sodium	mg/L	N/A	160	N/A	180	N/A				
Sulfate	mg/L	N/A	150	N/A	180	N/A				
Total Organic Carbon	mg/L	N/A	99	N/A	130	N/A				
Total Petroleum Hydrocarbons	mg/L	N/A	0.67	N/A	0.9	N/A				
(Formally TPH) TRH C6 - C9	mg/L	N/A	0.025	N/A	ND	N/A				
(Formally TPH) TRH C10 - C14	mg/L	N/A	0.025	N/A	0.14	N/A				
(Formally TPH) TRH C15 - C28	mg/L	N/A	0.42	N/A	0.45	N/A				
(Formally TPH) TRH C29 - C36	mg/L	N/A	0.2	N/A	0.31	N/A				
Total Phenolics (Phenols)	mg/L	N/A	0.019	N/A	0.0025	N/A				
Total Suspended Solids	mg/L	N/A	8	N/A	110	N/A				

ND = Not detected for all analytes in this group.

Disclaimer -This monitoring data has been made available to meet the requirements of Section 66(6) of the Protection of the Environment Operations Act 1997 and NSW EPA Guidelines on Requirements for Publishing Pollution Monitoring Data. To the best of Loop Organic's knowledge, the data in this table is correct. The information and data in this table must not be published elsewhere by any means without prior consent from Loop Organics. For more details on publication of pollution monitoring data refer to the NSW EPA Website [www.epa.nsw.gov.au](http://www.epa.nsw.gov.au)